Appl. No. 10/681,212
Amendment dated February 17, 2009
Reply to Office Action of October 15, 2008

NIP-217-02

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1-6. (canceled).

7. (currently amended) An automatic analyzer provided with an analysis means to analyze the physical properties of a specimen ~~where~~ contained in a mixed liquid of said specimen and a reagent poured into a reaction vessel ~~are to be analyzed~~,

said automatic analyzer comprising:

~~an~~a first acoustic wave generation means installed outside said reaction vessel to irradiate an acoustic wave toward said reaction vessel,

a second acoustic wave generation means to irradiate a lower acoustic wave from a bottom of the reaction vessel towards a liquid level of said mixed liquid so as to raise a part of said liquid level by an acoustic radiation pressure of said lower acoustic wave, and

a control means to control a position for irradiation of the acoustic wave by said first acoustic wave generating means according to a liquid level of said mixed liquid~~specimen and reagent~~.

wherein said part of the liquid level raised by said second acoustic wave

generation means is irradiated with the acoustic wave from said first acoustic wave

generation means by controlling said position.

8. (previously presented) An automatic analyzer according to claim 7, wherein

a plurality of analysis items exist and further comprising a storage means for storing

the acoustic wave irradiation position in an associated format for each analysis item,

wherein said control means refers to stored data in said storage means to

determine the irradiation position in conformance to each analysis item.

9. (previously presented) An automatic analyzer according to claim 7, wherein

a plurality of analysis items exist and further comprising a storage means for storing

an amount of specimen and reagent required for each analysis item in an associated

format,

wherein said control means refers to stored data in said storage means to

calculate the liquid level of the specimen and reagent inside the reaction vessel in

conformance to each analysis item to be analyzed, and to determine the irradiation

position according to the calculated liquid level.

10. (currently amended) An automatic analyzer according to claim 7, further

comprising a receiving means to receive the command on the position for irradiation

of acoustic waves by said first acoustic wave generating means,

wherein said control means determines the irradiation position according to the command received by said receiving means.

11. (currently amended) An automatic analyzer provided with an analysis means to analyze the physical properties of a specimen ~~where~~ contained in a mixed liquid of said specimen and a reagent poured into a reaction vessel ~~are to be analyzed~~,

said automatic analyzer comprising:

~~ana~~ first acoustic wave generation means installed outside said reaction vessel to irradiate an acoustic wave toward said reaction vessel,

a second acoustic wave generation means to irradiate a lower acoustic wave from a bottom of the reaction vessel towards a liquid level of said mixed liquid so as to raise a part of said liquid level by an acoustic radiation pressure of said lower acoustic wave, and

a control means to control an angle for irradiation of the acoustic wave by said first acoustic wave generating means according to a liquid level of said specimen and reagent,

wherein said part of the liquid level raised by said second acoustic wave generation means is irradiated with the acoustic wave from said first acoustic wave generation means by controlling said angle.

12. (previously presented) An automatic analyzer according to claim 7, wherein a plurality of analysis items exist and further comprising a storage means for storing the acoustic wave irradiation intensity in an associated format for each analysis item,

wherein said control means refers to stored data in said storage means to determine the irradiation intensity in conformance to each analysis item.

13. (previously presented) An automatic analyzer according to claim 7, wherein a plurality of reagents exist, each having corresponding reagent information, the automatic analyzer further comprising a storage means for storing the acoustic wave irradiation intensity in an associated format for each reagent information,

wherein said control means refers to stored data in said storage means to determine the irradiation intensity in conformance to the reagent to be analyzed.

14. (previously presented) An automatic analyzer according to claim 7, further comprising a reading means for reading the information on acoustic wave irradiation intensity recorded in a reagent bottle containing the reagent before it is poured into said reaction vessel,

wherein said control means refers to the reading of said reading means to determine irradiation intensity in conformance to the reagent.

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15. (currently amended) An automatic analyzer according to claim 7, further comprising a receiving means for receiving the command on the intensity for irradiation of acoustic waves by said first acoustic wave generating means,

wherein said control means determines the irradiation intensity according to the command received by said receiving means.

16. (currently amended) An automatic analyzer provided with an analysis means to analyze the physical properties of a specimen where contained in a mixed liquid said specimen and a reagent poured into a reaction vessel are to be analyzed,

said automatic analyzer comprising:

ana first acoustic wave generation means installed outside said reaction vessel to irradiate an acoustic wave toward said reaction vessel,

a second acoustic wave generation means to irradiate a lower acoustic wave from a bottom of the reaction vessel towards a liquid level of said mixed liquid so as to raise a part of said liquid level by an acoustic radiation pressure of said lower acoustic wave, and

a control means to control at least one of a position, an angle and an intensity for irradiation of the acoustic wave by said first acoustic wave generating means according to a liquid level of said mixed liquid specimen and reagent,

wherein said part of the liquid level raised by said second acoustic wave generation means is irradiated with the acoustic wave from said first acoustic wave

generation means by controlling said at least one of said position, said angle and

said intensity.